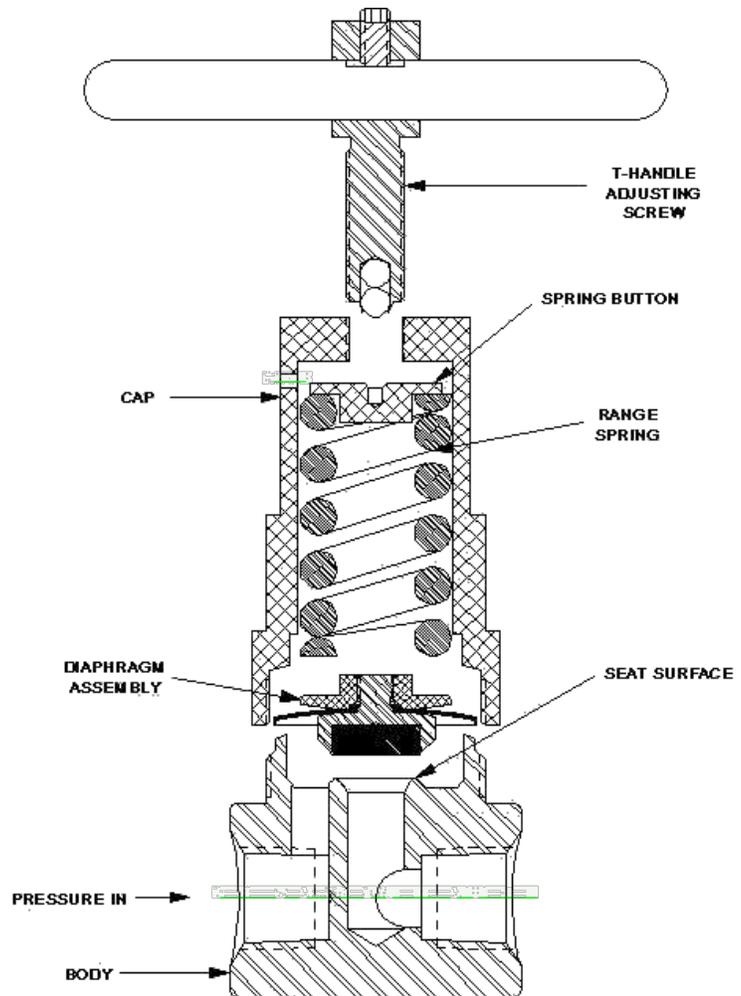


BP-6 Series Pressure Control Regulators Hard Seat Series Diaphragm/Seat Replacement Instructions

**Make sure you thoroughly understand these directions before proceeding
MAKE SURE THE REGULATOR IS DISCONNECTED FROM AIR SOURCE
MAKE SURE ANY RESIDUAL PRESSURE IS BLED OFF FROM REGULATOR.**

Instructions

1. Completely read these instructions before performing any of the operations.
2. Make sure the regulator is disconnected from pressure source; make sure any residual pressure is bled off from the regulator.
3. **FAILURE TO DO THIS WILL RESULT IN SERIOUS PERSONAL INJURY. DO NOT PROCEED UNTIL PRESSURE HAS BEEN REMOVED AND/OR TERMINATED**
4. Securely clamp the regulator over the flats in a vise.
5. Turn the T-Handle counterclockwise, as looking from the top of the regulator, and completely remove it from the regulator.
6. Remove the cap.
7. Remove the range spring.
8. Remove the diaphragm assembly.
9. Thoroughly blow out the inside of regulator body using clean, dry compressed air.
10. Clean seat surface with a cotton swab moistened with isopropyl alcohol.
11. Place new diaphragm assembly onto regulator cavity.
12. Place range spring and spring button onto diaphragm assembly.
13. Place a small amount of Krytox or other lubricant on the outer threads of the body if the regulator body is steel.
14. Put the cap over the regulator and engage threads by hand. Tighten hand tight.
15. Finish tightening cap to 80 lbf·ft (81 N·m).
16. Attach a pressure gauge and source of pressure to the inlet port.
17. Reinstall T-Handle adjusting screw and screw in until it just comes into contact with the spring button.
18. Squirt a leak detecting fluid around the base of the cap where it meets the body. Agitate the fluid to form foam and apply around the 0.125 (3.1mm) leak detection port in the bonnet of the cap.
19. Slowly turn the T-Handle clockwise while applying inlet pressure. As you apply more pressure to the inlet, gas will escape from the outlet. Turning the T-Handle more turns clockwise will stop the gas escaping from the outlet.



20. Continue applying inlet pressure and turning the T-Handle until a back pressure equal to 110% of the maximum rating for this regulator has been attained. Reapply the leak detecting fluid as needed.
21. Let stand for 2 minutes. If no leaks are noticed, you may proceed to the next step.
22. Relieve the source of pressure while backing off on the adjusting knob. Continue backing off on adjustment knob until it is all the way out and will turn no further.
23. The regulator is now ready for service.

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